

# Practice 3-7

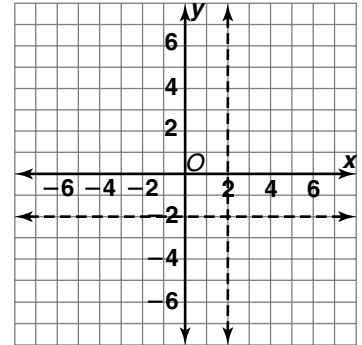
## Reflections and Symmetry

How many lines of symmetry can you find for each letter?

1. W \_\_\_\_\_ 2. X \_\_\_\_\_ 3. H \_\_\_\_\_ 4. T \_\_\_\_\_

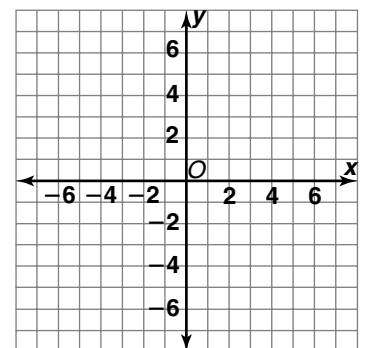
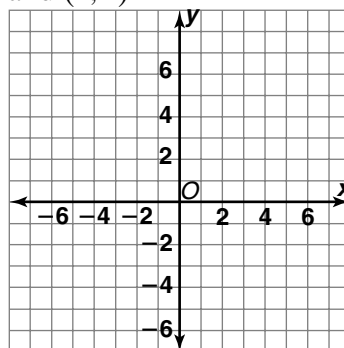
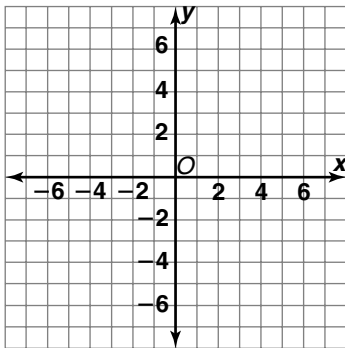
Graph the given point and its image after each reflection.  
Name the coordinates of the reflected point.

5.  $A(5, -4)$  over the vertical dashed line  
\_\_\_\_\_
6.  $B(-3, 2)$  over the horizontal dashed line  
\_\_\_\_\_
7.  $C(-5, 0)$  over the  $y$ -axis  
\_\_\_\_\_
8.  $D(3, 4)$  over the  $x$ -axis  
\_\_\_\_\_



$\triangle ABC$  has vertices  $A(2, 1)$ ,  $B(3, -5)$ , and  $C(-2, 4)$ . Graph  $\triangle ABC$  and its image,  $\triangle A'B'C'$ , after a reflection over each line. Name the coordinates of  $A'$ ,  $B'$ , and  $C'$ .

9. the  $x$ -axis  
\_\_\_\_\_
10. the line through  $(-1, 2)$  and  $(1, 2)$   
\_\_\_\_\_
11. the  $y$ -axis  
\_\_\_\_\_



Fold your paper over each dashed line. Are the figures reflections of each other over the given line?

